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THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

DEPARTMENT OF COMPUTER APPLICATIONS

Program: Bachelor of Computer Applications

Semester-I End Semester Examination (Practical)

Date:14-10-2019 Day: Monday Duration: 10:15AM-11:15AM

BCA1112C04 Introduction to Programming using Python Lab

Batch-C

Marks: 40

INSTRUCTIONS:

- 1. Attempt all.
- 2. In the beginning of each file, write the program objective, name of programmer, date of program creation, programming language and version of program.
- 3. Name your variables appropriately.
- 4. Add comments whenever necessary. Functions should have doc string.

SET B

Q1. 10

Write a program which simulate magic 8 ball for Fortune telling. The Magic 8 Ball is a toy used for fortune-telling or seeking advice. The user asks a yes-or-no question to the large plastic ball, then turns it over to reveal a written answer which appears on the surface of the toy.

The 20 answers inside a standard Magic 8 Ball are

- It is certain.
- It is decidedly so.
- Without a doubt.
- Yes definitely.
- You may rely on it.
- As I see it, yes.
- Most likely.
- Outlook good.
- Yes.
- Signs point to yes.
- Reply hazy, try again.
- Ask again later.
- Better not tell you now.
- Cannot predict now.
- Concentrate and ask again.
- Don't count on it.
- My reply is no.
- My sources say no.
- Outlook not so good.
- Very doubtful.

Hints:

import random module.

Take help about a function in random module which generates random numbers.

The Magic 8 Ball generates 20 answers consisting of values 1-20.

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	Use indefinite loop. Use ifelifelse to tell the fortune against all 20 answers.	
Q2.		
Write a	module named mathematical_mind consisting of following functions:	
	factorial(n)	
	prime(n)	
	evenodd(n)	
	bigsmall(a,b) # A function that finds greater or smaller of two nos.	
	divmodx(a,b) # A function that returns normal division, integer division and remainder of arguments a and b.	
Note: \	Write documentation string along with all the functions of the said module.	
Perforn	n the following tasks using your module.	
a) Gen	erate the Web Documentation using Pydoc Module.	5
b) Prin	t the contents of your module.	5
c) Use results.	all the functions of the module mathematical_mind into your program and find the display the 1	0
Q3.	1	0
Write a	function ratPattern() that prints a pattern as per the following condition:	
	If called without a parameter prints a right angle triangle of '*' just for five lines.	
	If called with a number n, it prints a right angle triangle of '*' for n lines.	
	If called with a character c and a number n ,it prints a right angle triangle of character c for n lines.	